

Appl. No. 10/783,826
Reply to Office Action of March, 2006

AMENDMENTS TO THE CLAIMS

This listing and version of the claims replace all prior listing and versions of the claims.

Listing of Claims:

1. (Withdrawn) A method for detecting moisture in a display device having at least one display element, the method comprising:

incorporating at least one moisture detector in a predetermined location of the display device;

encapsulating one or more display elements between a first and second shields; and

detecting the moisture by detecting one or more moisture-affected material characteristics of the moisture detector.
2. (Withdrawn) The method of claim 1 wherein the detecting further includes detecting the moisture by monitoring a resistance of the moisture detector.
3. (Withdrawn) The method of claim 1 wherein the detecting further includes detecting the moisture by monitoring a light transmissivity of the moisture detector.
4. (Withdrawn) The method of claim 1 wherein the incorporating further includes placing the moisture detector in the predetermined location so that it does not affect an operation of the display elements.
5. (Withdrawn) The method of claim 4 wherein the moisture detector is a strip of a thin metal.
6. (Withdrawn) The method of claim 5 wherein the moisture detector further includes two electrodes for measuring the resistance of the thin metal.
7. (Canceled)

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8. (Withdrawn) The method of claim 7 wherein the incorporating further includes placing the moisture detector in a display element region.

9. (Canceled)

10. (Currently amended) An organic luminescence display device comprising:

one or more display elements;

at least one moisture detector placed in a predetermined location close to the display elements, the moisture detector including a material layer comprising metal formed between a first electrode and a second electrode; and

a first and second shields for encapsulating the display elements and the moisture detector therebetween,

wherein undesired moisture is detected by the material layer between the first and second electrodes of the moisture detector has a resistance that varies with a moisture level of an environment in which the display device is located, base on one or more moisture-affected material characteristics thereof.

11. (Original) The display device of claim 10 wherein the moisture detector is placed in the predetermined location of the device so that it does not affect an operation of the display elements.

12. (Currently amended) The display device of claim 10 wherein a light transmissivity of the moisture is detected by monitoring a light transmissivity of the moisture detector detector varies with the moisture level of the environment in which the display elements are located.

13. (Currently amended) The display device of claim 10 wherein the ~~moisture detector is a strip of a thin metal~~ material layer comprises a metal compound.

14. (Canceled)

15. (Withdrawn) A moisture detector for a luminescence display device encapsulated between two shields with one or more display elements, the moisture detector comprising:

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a layer of metal placed in a predetermined location close to the display elements that does not affect an operation thereof,

wherein undesired moisture is detected by the moisture detector base on one or more moisture-affected material characteristics thereof.

16. (Withdrawn) The moisture detector of claim 15 wherein the moisture is detected by monitoring a light transmissivity of the moisture detector.

17. (Withdrawn) The moisture detector of claim 15 wherein the moisture is detected by monitoring a resistance of the moisture detector.

18. (Canceled)

19. (Withdrawn) The moisture detector of claim 15 wherein the moisture detector is placed in a display element region.

20. (Canceled)

21. (New): The display device of claim 10, wherein each of the one or more display elements includes a cathode and an anode made of the same material as the first and second electrodes.

22. (New): The display device of claim 10, wherein the material layer of the moisture detector contains a IA or IIA group earth metal.

23. (New): The display device of claim 10, wherein the material layer has a thickness of 200 angstroms or more.

24. (New): The display device of claim 10, wherein the display elements form an array, the moisture detector is located proximate to a column of display elements located at an edge of the array, and the moisture detector extends from a first position located proximate to a top edge of a top display element of the column of display elements to a second position located proximate to a bottom edge of a bottom display element of the column of display elements.

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25. (New): The display device of claim 10, wherein the display elements are disposed to form an array pattern comprising a plurality of element regions, and the moisture detector is disposed at an element region located at a corner of the array pattern.